Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

**Unit D – Chapter 1 – Lesson 1 -The Nervous System**

1. Our complex nervous system allows us to: \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with each other.
2. The human nervous system consists of: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_
3. The human nervous system is divided into 2 parts; the \_\_\_\_\_\_\_\_\_ nervous system and the \_\_\_\_\_\_\_\_\_\_\_\_ nervous system
4. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ nervous system is made up of the \_\_\_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. How is the central nervous system protected from harm?
6. The Spinal cord is an extension of the \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.
7. The nerves of the spinal cord are protected by our \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. The nerves from the spinal cord go into your arms, legs and trunk to form part of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ nervous system.
9. Nervous system cells, or nerve cells, are also called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. How is a neuron different from other cells in our body?
11. In a neuron, there are hair-like structures called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which receive impulses.
12. The neuron also has longer, tail-like structures called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which send a nerve message to the next neuron.
13. Nerve impulses move across the space between neurons, called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_, with the help of special chemicals.
14. The \_\_\_\_\_\_\_\_\_\_\_\_\_ is the main organ of the central nervous system.
15. List at least 3 things your brain controls (according to the reading):
16. Different parts of the brain control specific \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
17. The brain is not smooth, it is arranged in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
18. There are different types of nerve cells in the brain. Some are gray cells which we call \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and some are white cells called \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
19. Your brain has 3 major sections; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
20. The part of the brain that controls all of the “automatic” responses like breathing and reflexes is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
21. The part of the brain that controls coordination and balance is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
22. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the really important part of the brain that controls memory and thinking.
23. A nerve is a bundle of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that all go to the same place in the nervous system.
24. The \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ is a vital link between the body and the brain.
25. The average person has \_\_\_\_\_\_ pairs of cranial (head) nerves and \_\_\_\_\_\_ pairs of spinal nerves.
26. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system of the Peripheral nervous system takes care of the functions in your body that you do not willingly control (heartbeat, breathing, etc.)
27. The nerves in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ system link the body’s sense organs with the brain and spinal cord.
28. Your reflexes are controlled by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system. Reflexes protect you from being easily hurt.

ANSWERS

**Unit D – Chapter 1 – Lesson 1 -The Nervous System**

1. Our complex nervous system allows us to: \_\_**THINK**\_\_, \_\_\_**REASON**\_, and \_\_\_**COMMUNICATE**\_\_ with each other.
2. The human nervous system consists of: \_\_**NEURONS**\_, \_**BRAIN**\_\_, and \_\_**SPINAL** **CORD**\_\_
3. The human nervous system is divided into 2 parts; the \_\_**CENTRAL**\_ nervous system and the \_**PERIPHERAL**\_\_ nervous system
4. The \_\_**CENTRAL**\_\_ nervous system is made up of the \_\_**BRAIN**\_\_ and the \_\_ **SPINAL** **CORD** \_
5. How is the central nervous system protected from harm? **PROTECTED BY BONE AND WRAPPED IN PROTECTIVE MEMBRANES**
6. The Spinal cord is an extension of the \_\_**BRAIN**\_ \_\_\_**STEM**\_.
7. The nerves of the spinal cord are protected by our \_\_\_**VERTEBRAE**\_\_.
8. The nerves from the spinal cord go into your arms, legs and trunk to form part of the \_\_\_**PERIPHERAL**\_ nervous system.
9. Nervous system cells, or nerve cells, are also called \_**NEURONS**\_\_.
10. How is a neuron different from other cells in our body? **IT HAS MANY HAIRLIKE STRUCTURES, CAN BE AS LONG AS 3 FEET, CARRIES A NERVE IMPULSE, ETC.**
11. In a neuron, there are hair-like structures called \_\_\_**DENDRITES**\_\_, which receive impulses.
12. The neuron also has longer, tail-like structures called \_\_**AXONS**\_\_\_, which send a nerve message to the next neuron.
13. Nerve impulses move across the space between neurons, called a \_\_\_**SYNAPSE**\_, with the help of special chemicals.
14. The \_**BRAIN**\_\_ is the main organ of the central nervous system.
15. List at least 3 things your brain controls (according to the reading):
    * + 1. **THINGS YOU THINK ABOUT DOING**
        2. **THINGS YOU DO NOT THINK ABOUT DOING**
        3. **EMOTIONS**
16. Different parts of the brain control specific \_\_**BODY** **FUNCTIONS**\_\_\_ and \_**ACTIVITIES**\_\_
17. The brain is not smooth, it is arranged in \_\_\_**MANY** **FOLDS**\_\_\_ and \_\_\_**WRINKLES**\_\_
18. There are different types of nerve cells in the brain. Some are gray cells which we call \_\_**GRAY** **MATTER**\_\_ and some are white cells called \_\_**WHITE** **MATTER**\_\_\_\_.
19. Your brain has 3 major sections; \_\_\_**CEREBRUM**\_\_\_, \_\_\_**CEREBELLUM**\_\_\_ and the \_\_**BRAIN**\_\_ \_\_**STEM**\_\_.
20. The part of the brain that controls all of the “automatic” responses like breathing and reflexes is the \_\_\_\_**BRAIN** **STEM**\_\_\_\_.
21. The part of the brain that controls coordination and balance is the \_\_**CEREBELLUM**\_\_\_.
22. The \_\_**CEREBRUM**\_\_ is the really important part of the brain that controls memory and thinking.
23. A nerve is a bundle of \_\_\_**NEURONS**\_\_ with \_\_\_**AXONS**\_\_ that all go to the same place in the nervous system.
24. The \_\_**SPINAL**\_\_ \_\_\_**CORD**\_\_\_ is a vital link between the body and the brain.
25. The average person has \_**12**\_ pairs of cranial (head) nerves and \_**31**\_\_ pairs of spinal nerves.
26. The \_\_**AUTONOMIC**\_\_ system of the Peripheral nervous system takes care of the functions in your body that you do not willingly control (heartbeat, breathing, etc.)
27. The nerves in the \_**SOMATIC**\_ system link the body’s sense organs with the brain and spinal cord.
28. Your reflexes are controlled by the \_\_**AUTONOMIC**\_\_ system. Reflexes protect you from being easily hurt.